

CELEBRATING YOUR IMPACT 2017



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Jiyeen Joo, medical student, and Dr. Annie Langley, dermatology resident

Inspired by research.
Driven by compassion.

Inspiré par la recherche.
Guidé par la compassion.

YOUR GENEROSITY IS MAKING PATIENT CARE EXEMPLARY

I am delighted to present you with this report. In it you will read about the kind of exemplary care and research that you have supported this past year. We couldn't do it without you.

Your commitment to improving patient care enables The Ottawa Hospital to be one of Canada's most important and successful research and learning hospitals. This year, the hospital received a 99.1 percent for quality and safe patient care by Accreditation Canada – a mark that is exemplary. We are proud to tell you that we are the largest hospital to ever receive an Exemplary Status.

The journey to 'exemplary' started years ago when The Ottawa Hospital was merely an average hospital. This was not good enough for you, our community, who expected your hospital to deliver world-class care. Thanks to your generosity it has become world-class, renowned for leading-edge research, particularly stem cell research, which is changing the practice of medicine and saving lives around the world.

Your support is instrumental in shaping the future of health care – a future that now includes the planning and construction of a new campus for The Ottawa Hospital. Patients are at the core of the hospital and it is with them in mind that we continue our journey with you, designing and building this new campus that will transform health care in this region and around the world.

Thanks to your philanthropy, The Ottawa Hospital will continue to be a great cornerstone of our community for generations to come.

Gratefully,



Tim Kluge
President and CEO, The Ottawa Hospital Foundation



RESEARCH AND INNOVATION

Your generous support of research at The Ottawa Hospital is helping us develop more effective treatments for injuries and critical illnesses. We are delighted to report that we have raised \$38.2 million of our \$50 million Tender Loving Research campaign goal, which focuses on cancer, regenerative medicine, and improving patient care. Your support means research breakthroughs at The Ottawa Hospital are leading to better patient care, lifesaving treatments, and even cures.



Marina Moraitis, second from left, with fellow kilt runners, Susan Sami, Georgette Houle and Hayley Claassen, photo credit: Ian Hunter.

RUNNING A CLINICAL TRIAL FOR HEALTH

In June, Marina Moraitis donned a kilt and joined 2,175 other tartan clad runners in the Perth's World Record Kilt Run. Marina, who enjoyed running, was encouraged to continue the sport while undergoing chemotherapy treatment for breast cancer in 2010. She ran three times a week on a treadmill as part of a clinical trial led by Dr. Roanne Segal.

"The idea was to see if exercise helps cancer patients during chemo. It was proven extremely beneficial. It not only kept me in shape during my treatment, it also helped me focus on training for the 5km Run for the Cure, my goal at the end of the treatment."

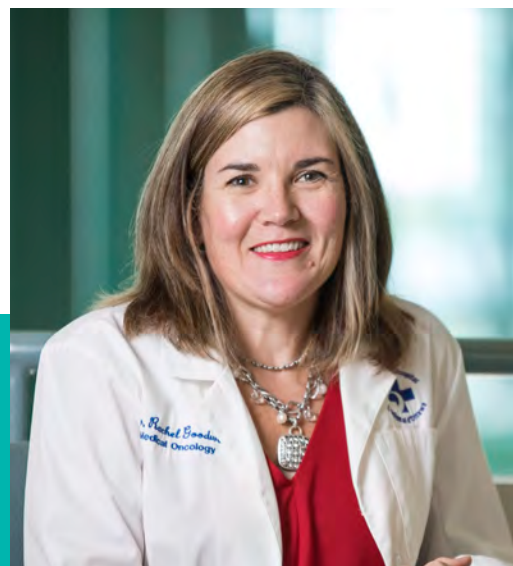
SEQUENCING GENES FOR BETTER TREATMENT

In June, OCTANE, a trial for a standardized next-generation genomic sequencing platform was set up by five Ontario cancer centres to help clinicians find treatments that may benefit patients.

Oncologist Dr. Rachel Goodwin said OCTANE means The Ottawa Hospital's Next Generation Sequencer (purchased entirely with donor support) is helping her identify gene mutations that might mean her colon cancer patients are eligible for new drug trials or even for a drug approved for other cancers.

"When we get the genetic sequencing report back for a colon cancer patient, we might see that the patient has a gene mutation identified by the OCTANE testing that could make their cancer susceptible to a drug we never would have considered, like a kidney cancer drug."

Clinical trials are critical to advancing new treatments and the approval of new drugs. Since 2016, 67 new trials have opened that use molecularly targeted therapies to treat cancer, including oncolytic viruses. To date, 273 patients have participated in these targeted trials. In total, there are 1,645 patients participating in 228 cancer clinical trials at The Ottawa Hospital.



Dr. Rachel Goodwin, oncologist and clinical investigator



Dr. John Bell, senior scientist, Cancer Therapeutics Program

CANCER FIGHTING VIRUSES GETTING CLOSER TO TREATMENT

Oncolytic (or cancer-fighting) viruses have shown promise in laboratory models of cancer, as well as in clinical trials in patients, but are not yet approved for general use in Canada. Dr. Bell and his colleagues' work is bringing them closer to reality for patients. Thanks to donor support, as well as recent funding from external sources, such as the Terry Fox Foundation, their research is continuing to look at ways to genetically modify these viruses, and combine them with different therapies, so that one day patients in Ottawa and around the world will be treated with oncolytic virus therapies developed by Dr. Bell's team.

READY FOR A RESEARCH CHAIR

When Arnie Vered passed away from pancreatic cancer in July 2014, his family resolved to establish a research chair to investigate better treatments for the ravaging diseases of the liver, pancreas, and biliary system. We are pleased to announce that funds were successfully raised for an endowed chair. The hospital will begin its search for an investigator to fill the opening of the Vered Family Chair for Hepato-Pancreato-Biliary Research, and we will be delighted to share that news with you once the candidate has been selected.



Liz and Arnie Vered, philanthropists



Dr. Jonathan Angel, senior scientist,
Chronic Disease Program

PRACTICE-CHANGING STUDY FOR HIV

Dr. Jonathan Angel helped lead a study that showed two injections every four or eight weeks could suppress replication of the HIV virus just as well as the standard treatment of a daily pill.

"The advantage is you're free from pills, which means if you go on vacation, you don't have to take pills with you," said HIV patient John Henry who was part of the trial. "And there is no daily reminder you have a chronic disease."

The trial involved 300 patients across 50 sites in five countries. Many patients at The Ottawa Hospital participated in and benefited from this research, and many more could benefit if the drug is approved.

Donor support is helping us establish a Research Chair in Gay Men's Health to not only focus on research in chronic illness and mental health, but also on understanding and improving how gay men navigate their way through the health system.



Jamie-Lee Eberts holds baby Olivia in the Neonatal Intensive Care Unit.

STEM CELLS TO TREAT BABY LUNGS

Olivia Eberts was born 115 days before her due date. She wasn't expected to survive. Olivia, like 1,000 other premature babies born in Canada every year, has a chronic condition called bronchopulmonary dysplasia, which can harm the brain and stunt growth. This condition results from damage to her developing lungs by the breathing equipment that helped keep her alive.

However, neonatologist and senior scientist Dr. Bernard Thébaud and his team discovered that stem cells from umbilical cords could prevent and even repair lung damage in animal models. "What we see in the lab is very promising," said Dr. Thébaud. "We think stem cells are going to be a game-changer for these babies." Dr. Thébaud hopes to launch a clinical trial in the near future to bring this discovery to the sick babies he sees every day.

We are grateful to donors who support critical neonatal research and the building of a new Neonatal Intensive Care Unit at the General Campus, which will mean babies like Olivia will receive the best, most up-to-date treatments developed at The Ottawa Hospital.

MAKING A DIFFERENCE IN VISION RESEARCH

Dr. Pierre Mattar holds the research position made possible by Diana Wood's endowment fund in vision research to advance new treatments for eye disease. She set up the fund in honour of her parents Clifford and Gladys, and her sister Lorna.

"For 15 years, it has been my goal to research and develop new avenues to repair neural tissue. I can honestly say that without the Wood Family's generosity, I wouldn't be here, and might never have achieved my goal. I want to thank them, and pledge to them that I'll work as hard as I can to build a program focusing on degenerative eye diseases, particularly age-related macular degeneration that will be worthy of their name."



Dr. Pierre Mattar, scientist, Regenerative Medicine Program

IMPROVING CARE

Your tremendous support gives our clinicians and doctors the freedom to innovate and find better ways to improve patients' health, using digital technology and the latest equipment.

IQ@TOH

"The IQ@TOH team is investigating ways to make patient care better, more efficient and ultimately increase survivability," said Dr. Alan Forster. "And we've made progress in many areas in reducing re-admission rates, improving post-surgery survivorship, which has resulted in saving precious health-care dollars and lives."

Dr. Forster leads the IQ@TOH program, an acronym for improving quality of care at The Ottawa Hospital. We are grateful to the Crabtree Foundation for its support of this program's specific research into the prevention and treatment of vascular health in the population, family practice, specialty, and in surgical practice settings.



Dr. Alan Forster, Vice-President of Quality Performance and Population Health, and senior scientist

TREATING CANCER BY ROBOT



Henny Harmsen, prostate cancer patient

In February 2014, a Kingston urologist informed Henny Harmsen that he had an advanced and aggressive form of prostate cancer.

"The severity of my cancer was frightening, and I wondered if I'd make it to my 60th birthday," said Henny. Then Ottawa Hospital surgical oncologist Dr. Rodney Breau told him he was a candidate for surgery using the da Vinci robot, a leading edge surgery not available to him in Kingston. The da Vinci Surgical System, with its six very small endoscopic incisions instead of a huge incision in Henny's lower abdomen, meant drastically reduced blood loss, lower possibility of infection, pain and other complications.

"I was in hospital for one night and I was back to work, at the Law Society of Upper Canada, 15 days later. That was incredible."

In the last six years, 1,635 patients were treated using the da Vinci Surgical System. One thousand of these patients were treated for prostate cancer. The da Vinci robot was purchased entirely with funds generously raised by the community.

CyberKnife, the state-of-the-art radiosurgery equipment purchased solely by the community, continues to offer lifesaving cancer treatments for inoperable tumours with no incisions. Since it was purchased in September 2010, 7,507 treatments have been given to 1,531 patients. From January 1, 2017 to September 15, 2017, 231 patients received 1,145 CyberKnife treatments.

SISTERS IN SOLIDARITY AGAINST BREAST CANCER

Rebecca Hollingsworth and her sister Mary Ellen Hughson were diagnosed with invasive ductal breast cancer in the same week. The sisters underwent surgery, chemotherapy and radiation, even losing their hair, at the same time. Their positive attitude and approach in facing their diagnosis inspired friends to fundraise for the new Breast Health Centre's MRI, which will be the only one in Canada dedicated solely to breast health. This MRI is the most sensitive test available for the detection of breast cancer. Detecting cancer at a much earlier stage can mean the difference between life and death.

"Bringing the 3 Tesla MRI to Ottawa gives us hope. Hope that many women in Ottawa will have their cancer detected earlier and so have the best chances possible," said Rebecca.

THE SKIN-NY ON THE NEW DERMATOLOGY CENTRE



Exam room in the new Dermatology Centre

We are thrilled to announce that thanks to incredible donor support, Phase 1 of the new Dermatology Centre is now open, with the final phase being completed in January 2018. This new state-of-the-art centre will provide patients with access to the latest treatments for their dermatologic needs into the future.

BREAKING RECORDS FOR WOUNDED

Retired Master Corporal Mike Trauner has been breaking records at The Ottawa Hospital Rehabilitation Centre since 2009. After an improvised explosive device in Afghanistan severed both his legs and injured his arm in 2008, Mike's doctors predicted that he would never walk again. In 2009, Mike defied expectations by mastering a computerized prosthetic limb. Mike went on to snowshoe and bounce on a trampoline, activities never before seen at the Rehabilitation Centre. In September, Mike competed in the 2017 Invictus Games, an international sporting event for wounded, injured or sick military service personnel and veterans, and returned with two gold medals for indoor rowing.



Mary Ellen Hughson and Rebecca Hollingsworth, breast cancer patients

Thanks to generous community donors like Rebecca and Mary Ellen, the 3 Tesla MRI will be an important addition to the new Breast Health Centre now under construction. The new Centre, set to open in early 2019, will reduce wait times between diagnosis and treatment for breast cancer patients in our region. It will improve diagnosis of tumours in high risk patients, and allow for research in breast imaging, establishing best practices in Ottawa and across Canada.

Mike used the CAREN system, the Virtual Reality Laboratory at the General Campus that was purchased by community philanthropists like you.



Prosthetist David Neilen adjusts Mike's prosthetic leg.



REBUILDING A LIFE AFTER TRAUMA

Ashley Ruelland was driving the bride-to-be and another friend to a bachelorette party at Mont Tremblant in March 2015, when an oncoming car crossed over the line and collided head on. While her friends had relatively minor injuries, Ashley had a grocery list of broken bones: from her right big toe to her ribs and just about everything in between. Ashley remained sedated in the ICU for two months. Four months after the crash, she began physiotherapy in her hospital bed.

"I couldn't feed myself, brush my own teeth or move much at all," said Ashley. "In May 2016, I stood independently for the first time. Today, thanks to the incredible care I received at The Ottawa Hospital, I am walking again."

Ashley Ruelland, trauma patient

The trauma centre at the Civic Campus is the only one in eastern Ontario. Thanks to you, our Emergency Department offers the most specialized expertise and research advances, which result in innovative treatments that lead to the best outcomes for patients like Ashley.



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Dr. Ian Stiell, emergency physician
and senior scientist